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**(54) NOVEL G PROTEIN-CONJUGATED RECEPTOR PROTEIN, ITS PRODUCTION AND USE**

**PURPOSE:** To obtain the subject new safe protein having a specific amino acid sequence, originated from the smooth muscle of a rabbit stomach pylori part, having a G protein-conjugated receptor activity, and useful as a medicine for preventing and treating a G protein-conjugated receptor protein deficiency, etc.

**CONSTITUTION:** A new G protein-conjugated receptor protein contains the same amino acid sequence as an amino acid sequence containing an amino acid sequence of the formula, is originated from the smooth muscle of a rabbit stomach pylori part, has a G protein-conjugated receptor activity, and is useful as an agent for clarifying the structure and property of the G protein-conjugated receptor, a medicine for preventing and treating a G protein-conjugated receptor protein deficiency, etc. The receptor protein is obtained by separating mRNA from the smooth muscle of the rabbit stomach pylori part by a conventional method, synthesizing a cDNA from the mRNA with negative transcriptase, cloning the synthesized cDNA as a template by a PCR method using a synthetic primer comprising a part of a gene, such as a man-originated galanin receptor, and expressing the obtained G protein-conjugated receptor gene in a host.

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**New G protein conjugate receptor protein and related DNA - useful for screening for drugs to inhibit G protein-ligand binding**

**Patent Assignee:** TAKEDA CHEM IND LTD

**Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 8245697	A	19960924	JP 9557187	A	19950316	199648	B

**Priority Applications (Number Kind Date):** JP 9557187 A ( 19950316)

**Patent Details**

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 8245697	A		25	C07K-014/705	

**Abstract:**

JP 8245697 A

A G protein conjugate receptor protein (I) having the 252 amino acid sequence given in the specification, or its salt, is new.

USE - The protein can be used for the development of new drugs.

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